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[Continued on next page]

(54) Title: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING THE SAME

A

NOVTRAN cDNA sequence:

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atgcagtggtcctgtctggcctgaacctctcagggtctccacatgtctctctcagagacccctgtgctgtgcccacagggaacgaagctctc  
cactctgtatcactcaacgaacccaatgcgcctctctctggagggttggtgaagctgcaaggcatcccccctgactgtagggtctgagcaaccgcc  
ctgtccatctcctcctgcatgctctctcctcactgactctcaacagacatccctcctctcaacagcccccctgtctgtgggaacca  
cggacagaggccttccatcccccagcctgaaggcagagtaggtggaccatctcgcgaagccggcctcaattctcaaggccatgctgtggagc  
cagtgccatctggaccctctgggtcagcaaaagggtgtgtcttaacaaaggcagccctcgaagatgccaaaggcccgcaatgccagtgagaccg  
tgaaaacctctgtgacaacccctgcagtgctctctctctcagctgctctcagctcctcagatcaagggtggaacacagcagcagcagcagtaag  
cggaaattgacttgcacaaagtcggggcctcgggattacaatcaaggctgtctgaaactcggcagatccagctgcaaaaggcaggtctctcagc  
gtgcagaacgtgtctgaggggttggtcagcccgaggctccaggaaccactgcaagggtggggcggccctcagagcccttccagagctggg  
ggctggtagccccccttggcttggaaggtcagtaacccaacccatcccccagcccgactcggaaagggtgtgactggcccccctgtgtctctgt  
gaccagtgccactgtgactctccagccagccgaacctggcacaactcgggtgttccctaaatagccatggagggtattgtgcatgagagctgtc  
gattccagaacctctggacatagggtctggagctcatctgcagaagctgctgca
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B

NOVTRAN Protein Sequence:

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MQWSCLACTLLRVLPHVLSLLRDPVPVPTGTGKLFHSCITSTNPFASFLEVAVEAAGITPW  
TVGSEHPPCPYPSLHASPFDTSFNRPSPAPLNRPSRAGPRTEAFPSPGLKARVGGTILAE  
AGLNSQGHAVEPVPSGSGSSKGCVLKGRPSRMPKARECPVDRENLLLTNPAVPSLLQL  
LSSSPCKVETEQERSNAEFDLQSRARDYNSRLLKLQIPAAKGSSFLELQNVSGGVG  
SARGPRNHCKVAGPQSPFELGAGSPPLALEKVSTQPIQARLRKGVDWPPVSPGDQC  
PLCTLPGQPNLAHTGCSLNSHGGYCGMESCRFQKPPGHRAGSSAAEA
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(57) Abstract: The invention provides novel human transmembrane (NOVTRAN), neuromedin (NOVNEUR), gonadotropin (NOVGON), and interleukin-1 receptor antagonist (NOVINTRA A and B) proteins (NOVX proteins) and isolated nucleic acid molecules encoding the same. Also provided are antibodies that immunospecifically bind to NOVX polypeptides or polynucleotides, or derivatives, variants, mutants, or fragments thereof. The invention additionally provides methods in which a NOVX polypeptide, polynucleotide, and antibody are used in the detection, prevention, and treatment of a broad range of pathological states. Also provided are method of diagnosing and treating a lung disease associated with differential expression of human interleukin-1 epsilon.

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